

FIG. 1

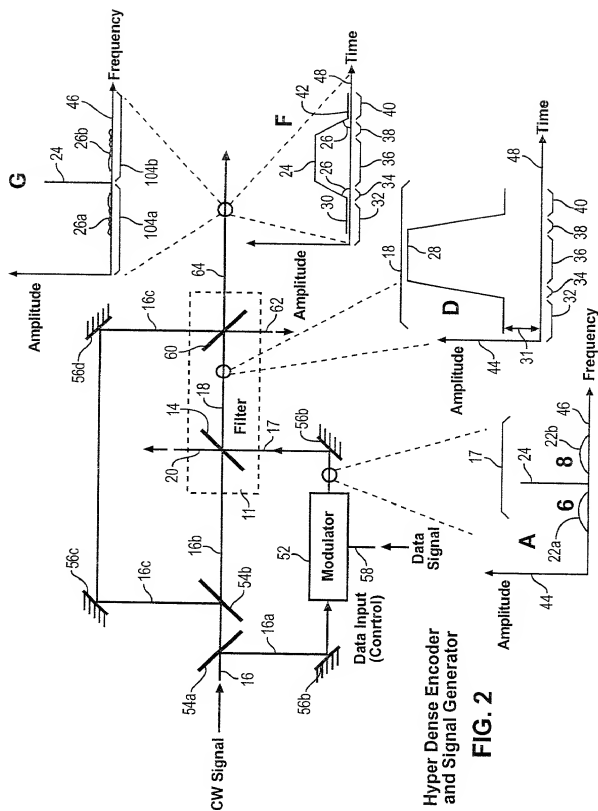


FIG. 2

Hyper Dense Encoder
and Signal Generator

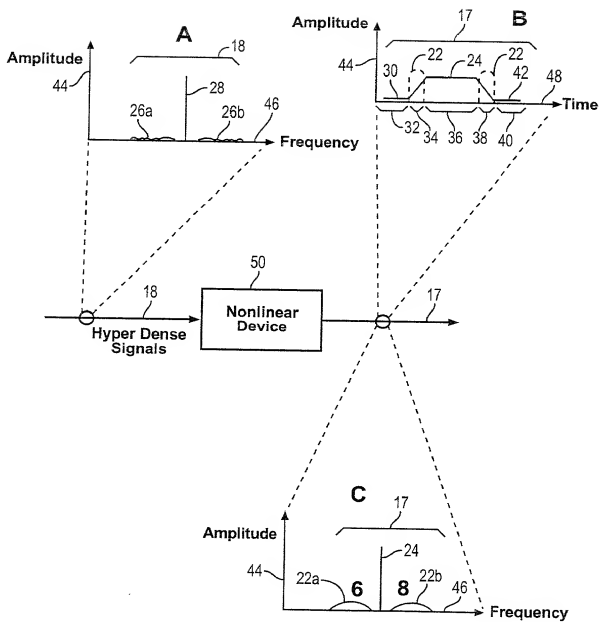


FIG. 3

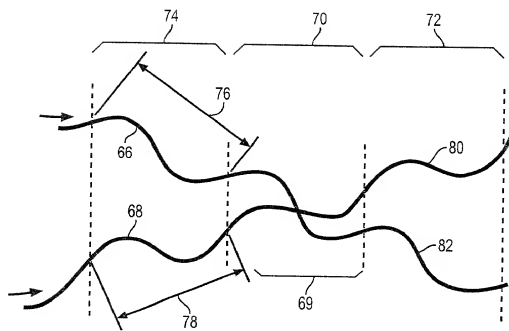


FIG. 4

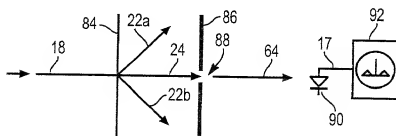


FIG. 5

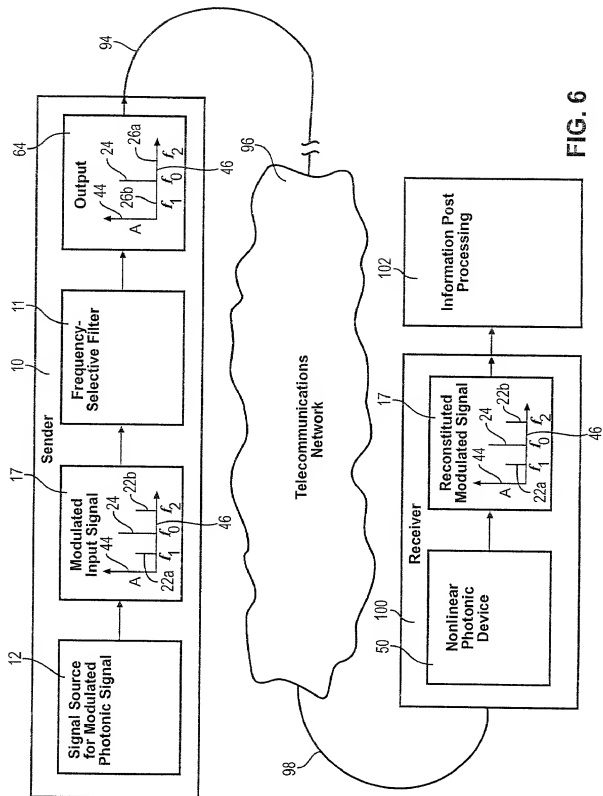
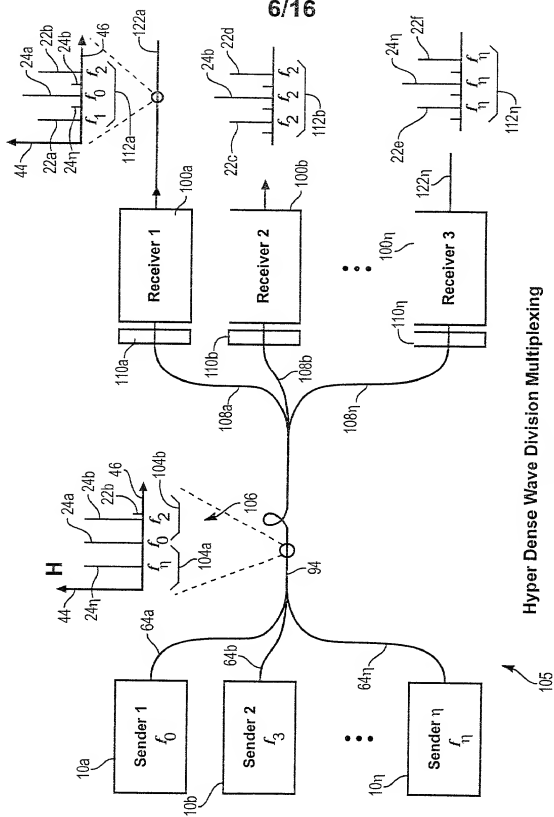


FIG. 6



Hyper Dense Wave Division Multiplexing

FIG. 7

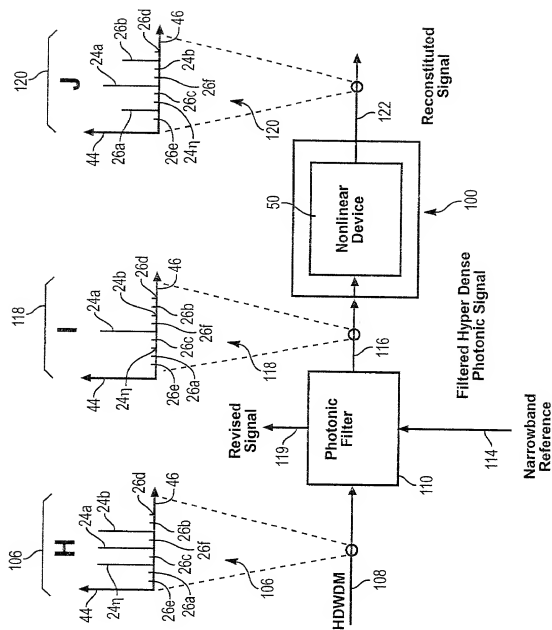


FIG. 8

**Hyper Dense Wave Division Demultiplexor (HDWDDM)
Using Drop-Filter Band Selection**

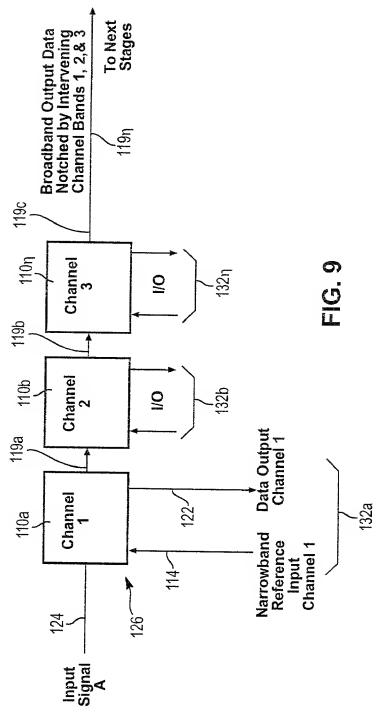


FIG. 9

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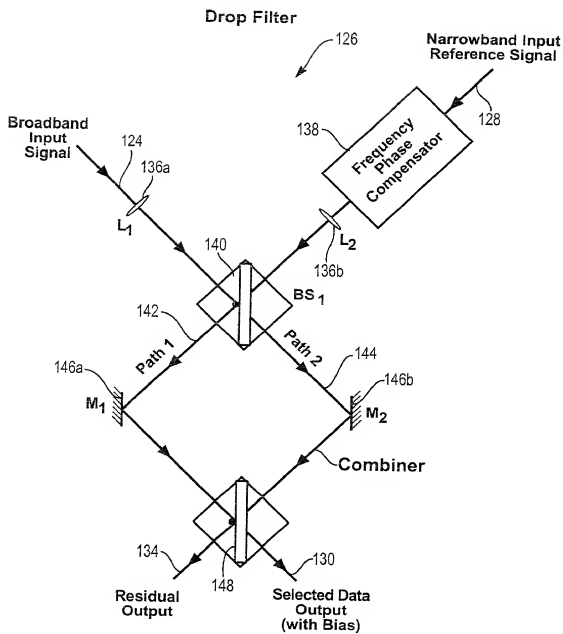


FIG. 10

**Super Hyper Wave Division Demultiplexor (HDWDDM)
Using Drop Filter Band Selection**

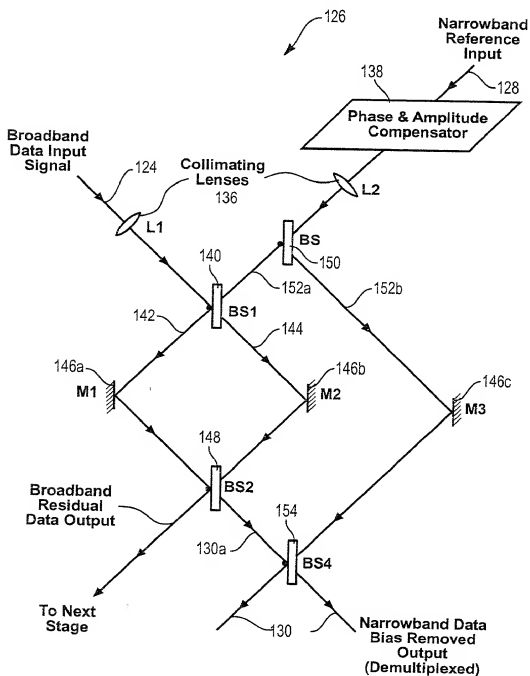
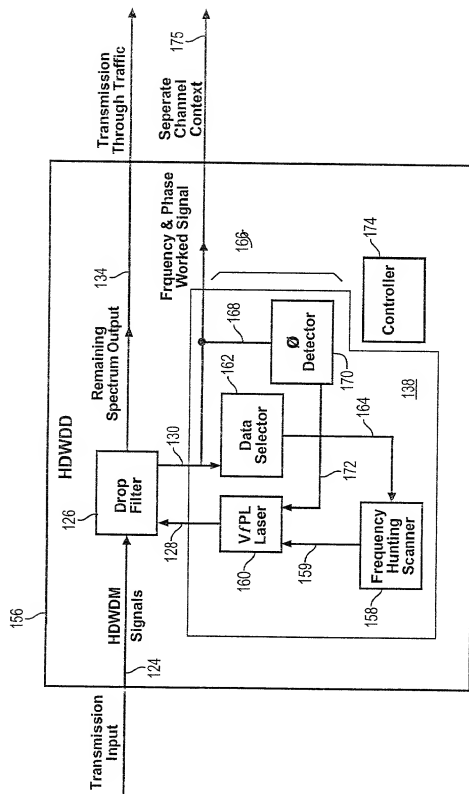


FIG. 11



Hyper Dense Channel Separator

FIG. 12

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Channel-Selection Process

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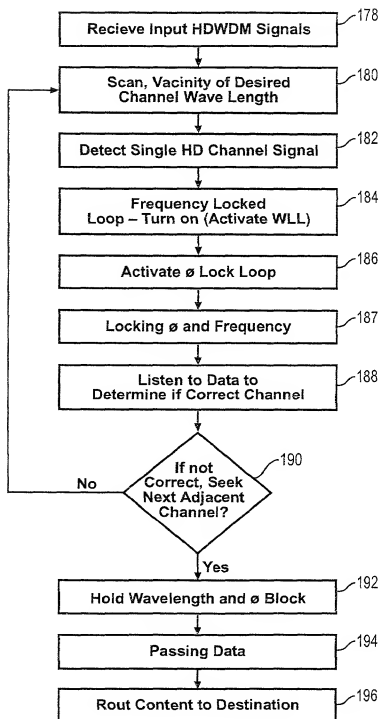
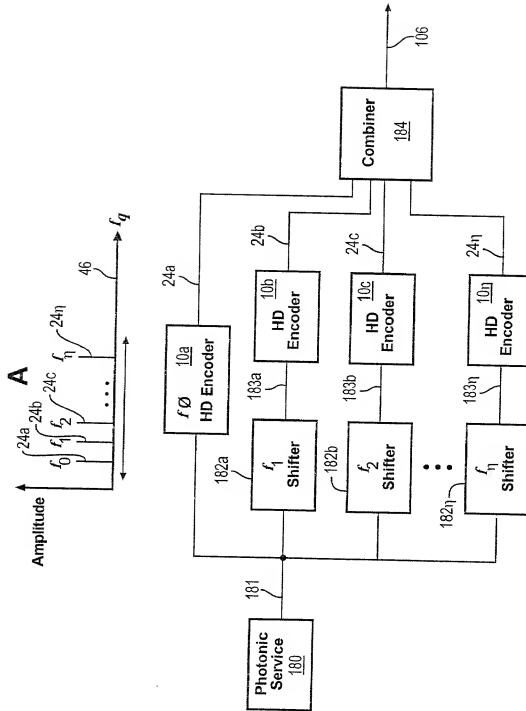
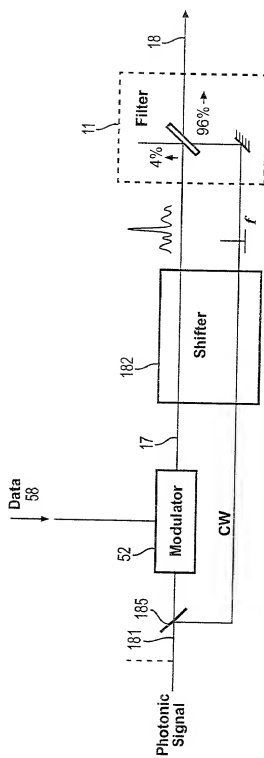


FIG. 13



HDWDM Multiplexer

FIG. 14



Hyper Dense Frequency Shifted Signals

FIG. 15

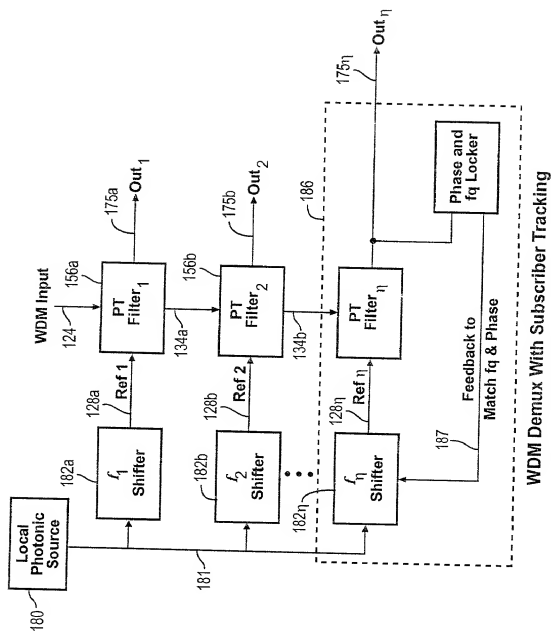
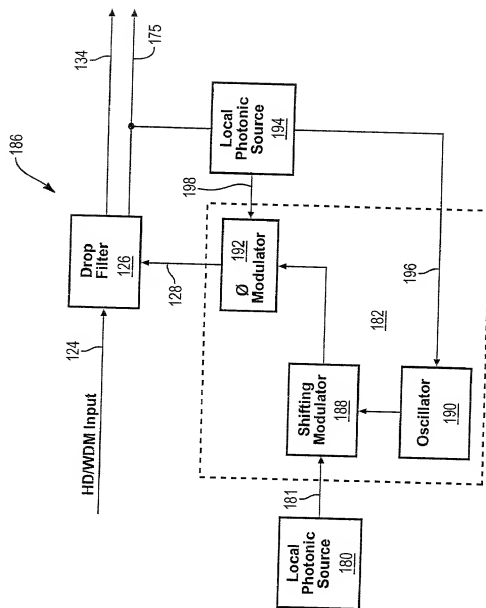


FIG. 16



Channel Separation Assembly

FIG. 17